



***WELCOME***

***Federal Utility Partnership Working Group***  
***May 1, 2007***



# ***Providing reliable electric service amidst growing demand in Florida***



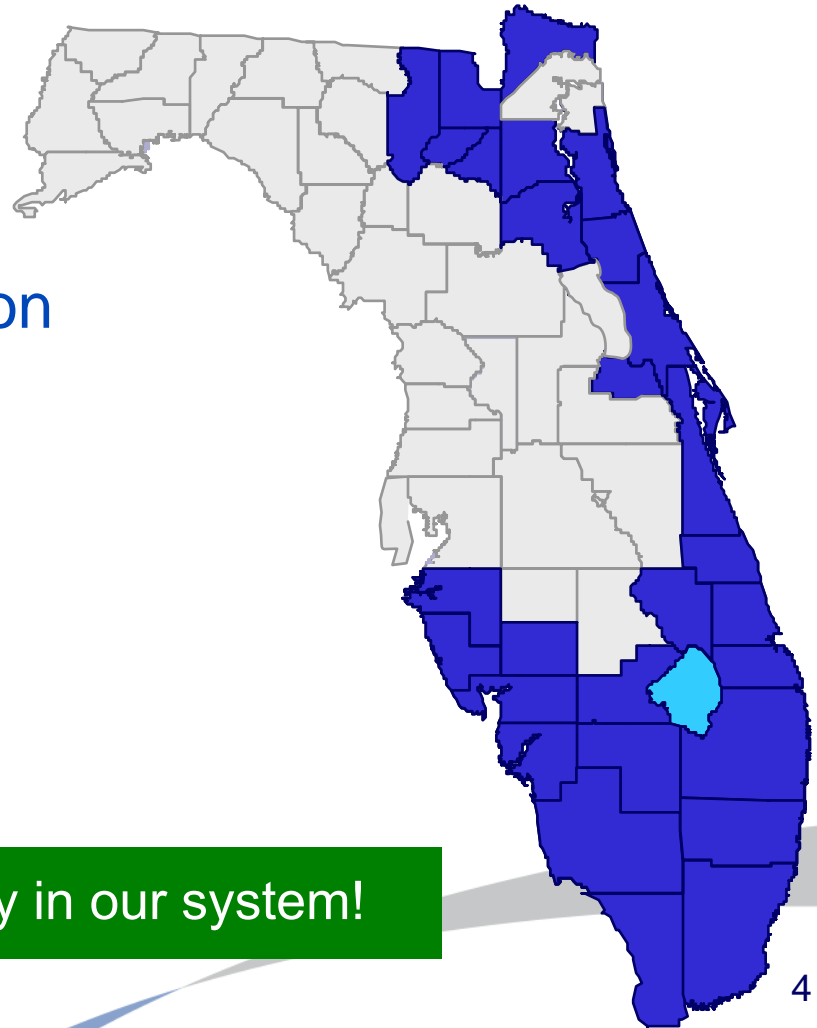
# Today's Topics

- Growth and investing in our network
- A multi-faceted plan for meeting growth and ensuring reliable service
  - Energy efficiency and load control
  - Building new generation
  - Increasing emphasis on renewable energy



# ***FPL: A major presence in the Florida energy landscape***

- FPL serves 35 counties, 27,000 square miles
- Serves half of the population
- More coastline than any other state in continental U.S.
- 80% of population lives within 20 miles of coast



**We're investing heavily in our system!**

# ***Implementing Storm Secure<sup>®</sup> Program to Make Electric System More Resilient***

- Harden electric network
- Invest in underground conversions
- Upgrade pole inspections
- Increase clearing of trees/vegetation from around power lines



**An unprecedented industry-leading program!**



# ***Demand for power keeps growing***



Around 1,000 people a day  
move into Florida

FPL adds nearly 90,000  
customer accounts per year

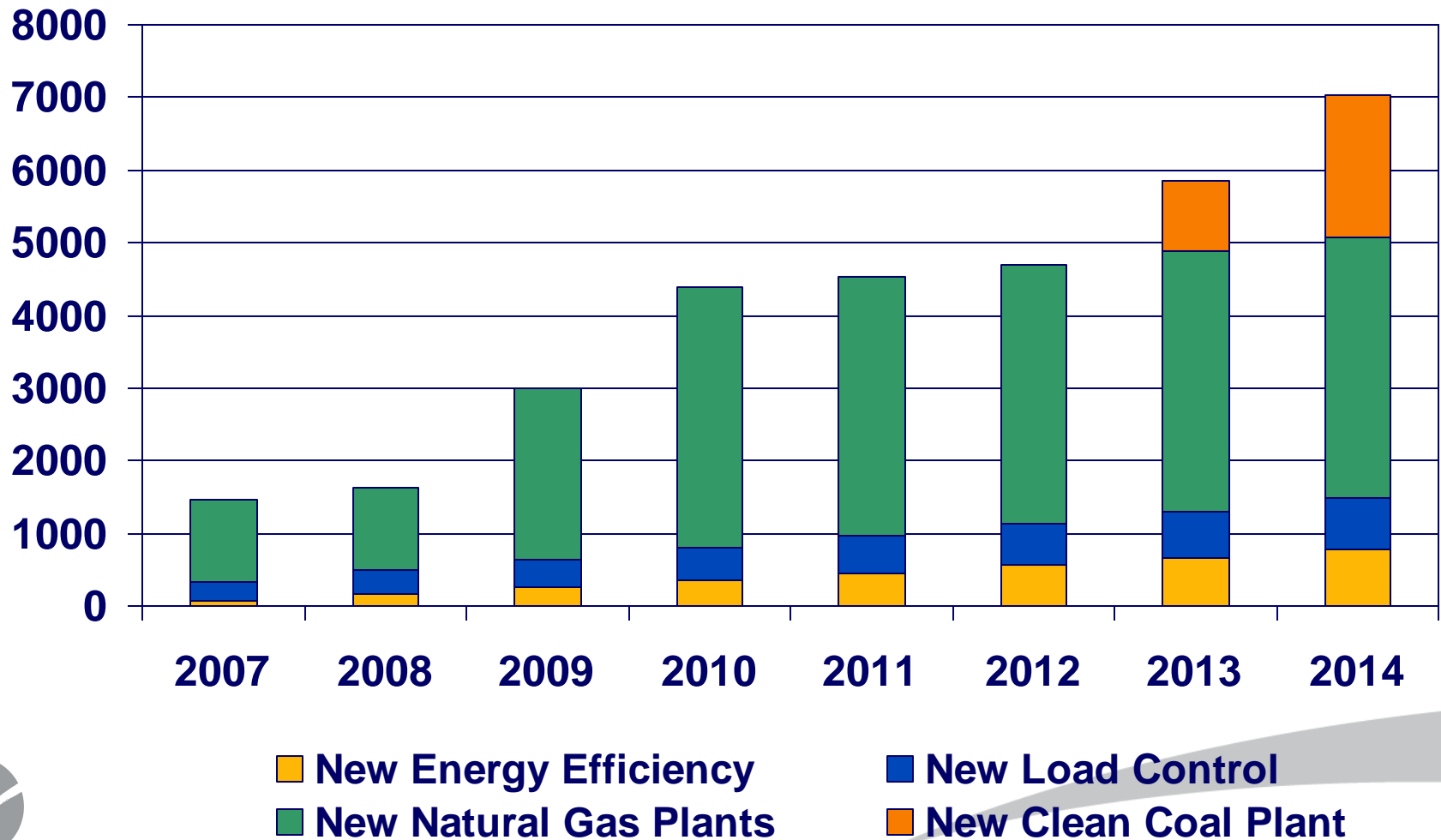
Residential customers use  
about 30% more electricity per  
household than 20 years ago

# *Need multi-faceted effort*

- On demand side ... encourage energy efficiency
- On supply side ... build more power plants

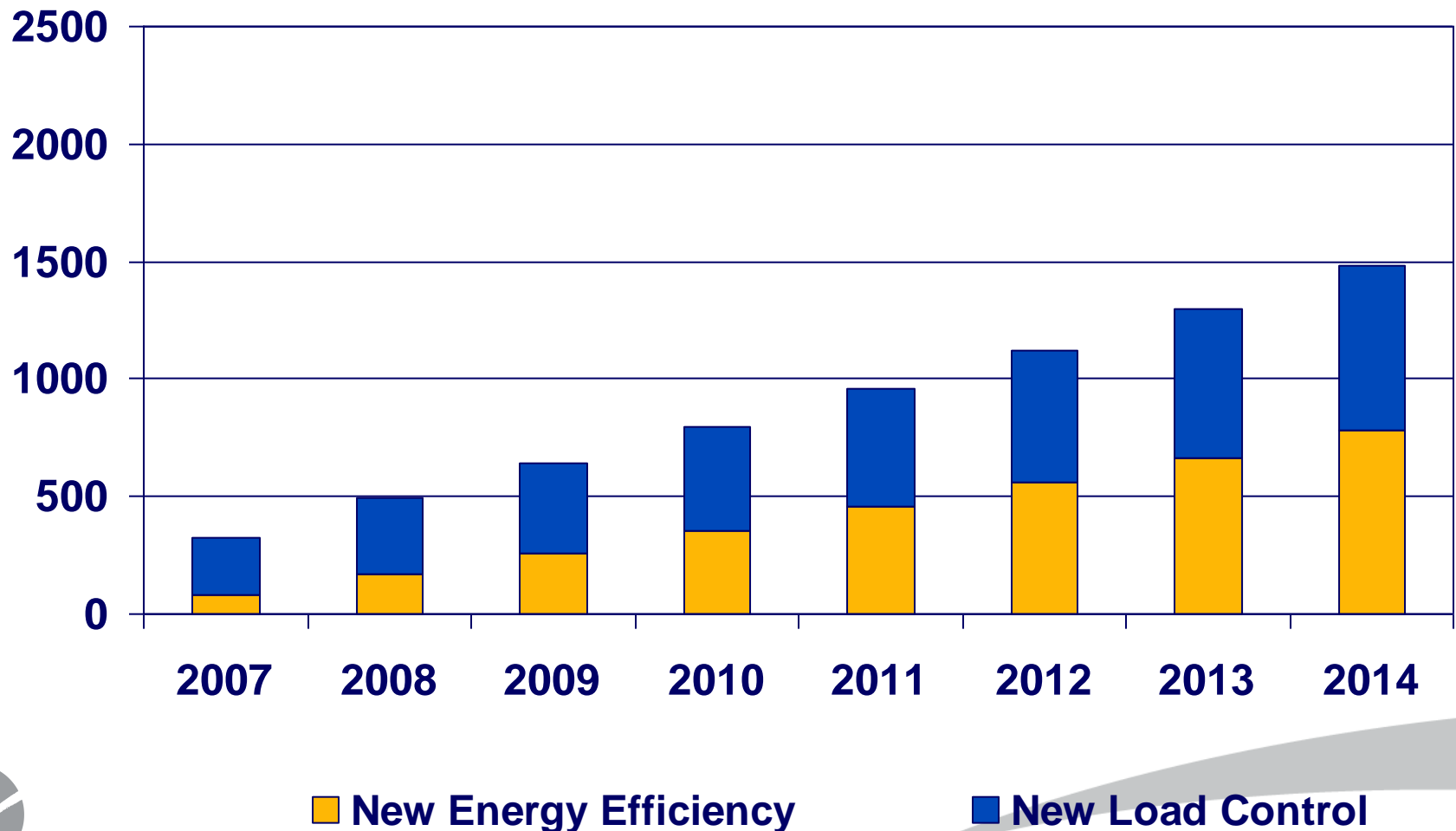


# *Meeting future electric demand: Several elements involved*





# *Growing contributions from energy efficiency programs*



# ***Energy Efficiency and Load Management Make a Difference!***

Building Envelope  
Roof Insulation  
Ceiling Insulation  
Reflective Roof Coating  
Window Treatment

Load Management  
Business On Call®  
Commercial Demand  
Reduction

Cooling &  
Heating Systems  
Chillers  
DX HVAC  
Energy Recovery Ventilators  
Demand Control Ventilation  
Thermal Energy Storage  
ECM Fans

Lighting

Water Heating  
Refrigeration

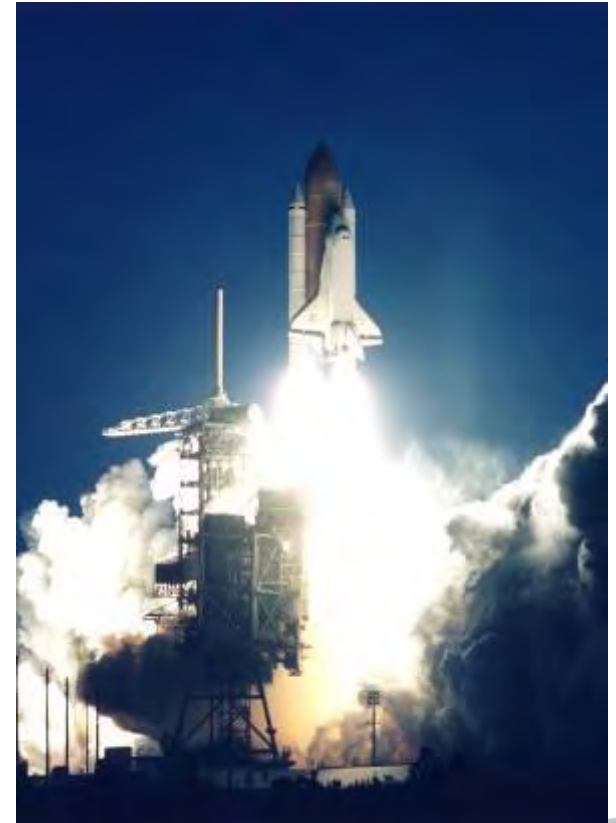
Business Energy  
Evaluation

Business Custom Incentives



# *Committed to providing energy services to Federal agencies*

- 34 energy services projects contracted
- 9 different agencies
- Select projects
  - NASA Kennedy Space Center
  - USAF 45<sup>th</sup> Space Wing
  - Veterans Administration



# *Reliance on natural gas*

- Used to generate 50% of FPL's power – and growing!
- Price has been volatile – impacting customers
- Supply reliability at issue



Need to continue to diversify our fuel sources

# *Advanced clean coal technology*

- FPL seeking approvals to build state-of-the-art advanced clean coal technology power plant
- Significant technology improvements will lower emissions
- 200-300 year domestic supply at stable prices



FPL Glades Power Park (proposed)

Will be cleanest coal plant in U.S.



# *Is new nuclear power in our future?*

- Safe, reliable, no greenhouse gas emissions
- Challenges: Costly and lengthy development and construction costs/risks



# *Renewable energy sources getting increased attention*

- FPL's sister company, FPL Energy, is U.S. leader in renewable energy
  - #1 in wind power generation
  - #1 operator of solar energy generation



# *Renewable energy sources getting increased attention*

- In Florida and at FPL:
  - FPL purchases small amount of power from renewable sources
  - We want to do more! (RFP)
  - Partnership with FAU on ocean current technology
  - Sunshine Energy (Sarasota solar array)
  - Wind demonstration project
  - State funding incentives (SB888) for homes and businesses



Photos courtesy of Solid Waste Authority of Palm Beach County

# *Community renewable projects*

- PV R&D project
  - 5 PV sites installed and monitored
  - Homestead, Rockledge, Merritt Island, Palm Coast, Miami
- PV for schools
  - FL Gulf Coast U.
    - 4.8 kw, Fort Myers
  - Harlee Middle School
    - 4.8 kw, Bradenton
  - A.D. Henderson School
    - 4.8 kw, Boca Raton



# ***Providing reliable electric service amidst growing demand in Florida***

- Must be multi-faceted effort
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  - Building new generation
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***Powering Today.  
Empowering Tomorrow.***